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Notice of Allowability	Applicati n N .	Applicant(s)	
	09/581,193	RAMASWAMY ET AL.	
	Examiner	Art Unit	
	Thai D Hoang	2667	

-- The MAILING DATE of this communication appears on the c ver sheet with the c rrespondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 8/27/2004.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☒ The drawings filed on 08 June 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>06/08/2000</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Kolodka on 13 January 2005.

The application has been amended as follows:

Claim 1:

Lines 10-11, the statement "one such row pair for each handset," has been deleted; and

line 12, the statement "the respective handset" has been changed to -- a respective handset—

Claim 9:

Lines 15-16, the statement "one such row pair for each handset," has been deleted; and

line 17, after "time slot for" the statement -- a respective handset and a plurality of transmit and receive audio packet time slots for— has been inserted.

Claim 11:

Lines 12-13, the statement "one such row pair for each handset," has been deleted; and

line 14, the statement "the respective handset" has been changed to -- a respective handset—

Allowable Subject Matter

Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance:

Kim, US Patent No. 6,172,971, discloses a method for forming frame structure for use in time division multiple access (TDMA) communication system. Kim does not teach or fairly suggest the following features, which are recited in each independent claim of the present application:

(i) A wireless telephone system, comprising:

(a) a base unit having a base transceiver; and

(b) a plurality of wireless handsets, each handset comprising a handset transceiver for establishing with the base unit via the base transceiver a time-division multiple access (TDMA) data link and a TDMA audio link, in accordance with a TDMA epoch allocating exclusive data and audio packet time slots to each handset, wherein the data link is for transmitting signaling information and the audio link is for transmitting voice data for a real-time telephone call, wherein

the base unit, upon request from a handset for data from a data source, retrieves the requested data from the data source and transmits the retrieved data to the handset via the audio link, wherein:

the epoch has a plurality of transmit and receive data row pairs, wherein each row pair comprises

an even row comprising a transmit data time slot for a respective handset and a plurality of transmit and receive audio packet time slots for a portion of the maximum number of the plurality of handsets which may be communicating at a time, and an odd row comprising a receive data time slot for the respective handset and a plurality of transmit and receive audio packet time slots for the other portion of the maximum number of the plurality of handsets which may be communicating at a time; and

each handset receives and transmits data packets via the receive and transmit data packet slots only once during each epoch, during the transmit and receive data row pair for each said handset, and, if the handset is communicating with the base unit, each handset receives and transmits audio packets during respective transmit and receive audio packet time slots of each row pair of the epoch as recited in claims 1, 9 and 11.

(ii) A wireless telephone system, comprising:

(a) a base unit having a base transceiver; and

(b) a plurality of wireless handsets, each handset comprising a handset transceiver for establishing a data link and an audio link with the base unit via the base transceiver, wherein the data link is for transmitting signaling information and the audio link is for transmitting voice data for a real-time telephone call, wherein the base unit, upon request from a handset for non-voice data from a data source, retrieves the requested data from the data source and transmits the retrieved data to the handset via the audio link if the handset is not currently using the audio link to transmit real-time

telephone conference voice data and transmits the stored information to the handset via the data link otherwise as retied in claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang


CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER
11/9/05